

APPENDIX B  
PENDING, ELECTED CLAIMS

32. (as filed) An isolated nucleic acid encoding a sensory cell specific polypeptide, the polypeptide comprising greater than about 70% amino acid sequence identity to an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4.

33. (as filed) The isolated nucleic acid of claim 32, wherein the nucleic acid encodes a polypeptide that specifically binds to polyclonal antibodies generated against SEQ ID NO:3 or SEQ ID NO:4.

34. (as filed) The isolated nucleic acid of claim 32, wherein the nucleic acid encodes SEQ ID NO:3 or SEQ ID NO:4.

35. (as filed) The isolated nucleic acid sequence of claim 32, wherein the nucleic acid comprises a nucleotide sequence of SEQ ID NO:12 or SEQ ID NO:13.

36. (canceled)

37. (as filed) The isolated nucleic acid of claim 32, wherein the nucleic acid is amplified by primers that selectively hybridize under stringent hybridization conditions to the same sequence as degenerate primer sets encoding amino acid sequences selected from the group consisting of:

STEGAGGQES (SEQ ID NO:21) and  
WMPNILKATE (SEQ ID NO:22).

38. (as filed) The isolated nucleic acid of claim 32, wherein the nucleic acid encodes a polypeptide having a molecular weight of about between 80 kDa to about 90 kDa.

39. (once amended) An isolated nucleic acid encoding a sensory cell specific polypeptide that specifically hybridizes under highly stringent conditions to a nucleic acid having the sequence of SEQ ID NO:12 or SEQ ID NO:13, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

40. (once amended) An isolated nucleic acid encoding a sensory cell specific polypeptide, the polypeptide comprising greater than about 70% amino acid sequence identity to an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4, wherein said nucleic acid selectively hybridizes under moderately stringent hybridization conditions to a nucleotide sequence of SEQ ID NO:12 or SEQ ID NO:13, wherein the hybridization reaction is incubated at 37°C in a solution comprising 40% formamide, 1 M NaCl, and 1% SDS and washed at 45°C in a solution comprising 1x SSC.

46. (as filed) An expression vector comprising the nucleic acid of claim 32.

47. (as filed) A host cell transfected with the vector of claim 46.

94. (new) An isolated nucleic acid encoding a sensory cell specific polypeptide comprising an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4 or an antigenic fragment thereof.

95. (new) An isolated nucleic acid encoding a sensory cell specific polypeptide, wherein the polypeptide has a predicted molecular weight of approximately 85 KDa, and wherein the nucleic acid specifically hybridizes under stringent hybridization conditions to a nucleic acid having the sequence of SEQ ID NO:12 or SEQ ID NO:13, wherein the hybridization reaction is incubated at 42°C in a solution comprising 50% formamide, 5x SSC, and 1% SDS and washed at 65°C in a solution comprising 0.2x SSC and 0.1% SDS.

96. (new) An isolated nucleic acid encoding a sensory cell specific G

polypeptide comprising greater than about 70% amino acid identity to a polypeptide comprising an amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4, which polypeptide has a predicted molecular weight of approximately 85 KDa.

97. (new) An isolated nucleic acid sequence comprising a nucleotide sequence of SEQ ID NO:12 or SEQ ID NO:13.

98. (new) An isolated nucleic acid sequence that encodes a polypeptide comprising a amino acid sequence of SEQ ID NO:3 or SEQ ID NO:4.